

AMENDMENTS TO THE ABSTRACT

Please replace the abstract with the following paragraph:

A method of driving an electromagnetic pump which includes conveying fluid from a pump chamber formed inside a cylinder by housing a plunger including a permanent magnet inside the cylinder, passing a current through an aircore electromagnetic coil fitted around the cylinder to reciprocally move the plunger in the axial direction inside the cylinder, and alternately applying a pulse voltage on a positive side and a negative side to drive the electromagnetic coil such that a change in voltage that occurs when the polarity of the pulse voltage is inverted has a linearly or exponentially continuous slope at least between the positive side and the negative side.